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Application No.: 10/522,225

Docket No.: ASZD-P01-804

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-10. (Cancelled)

11. (Previously Presented) A compound of formula (Ij):

$$(R^{1})_{n} \xrightarrow{H} O O O O B$$

$$R^{2} R^{3} N B$$

$$(R^{6})_{m}$$

$$(Ij)$$

wherein:

R¹ is selected from halo, nitro, cyano, hydroxy, amino, carboxy, carbamoyl, mercapto, sulphamoyl, C₁₋₆alkyl, C₂₋₆alkenyl, C₂₋₆alkynyl, C₁₋₆alkoxy, C₁₋₆alkanoyl, C₁₋₆alkanoyloxy, N-(C₁₋₆alkyl)amino, N,N-(C₁₋₆alkyl)₂amino, C₁₋₆alkanoylamino, N-(C₁₋₆alkyl)carbamoyl, N,N-(C₁₋₆alkyl)₂carbamoyl, C₁₋₆alkylS(O)_a wherein a is 0 to 2, C₁₋₆alkoxycarbonyl, N-(C₁₋₆alkyl)sulphamoyl, N,N-(C₁₋₆alkyl)₂sulphamoyl, C₁₋₆alkylsulphonylamino, carbocyclyl, heterocyclyl, carbocyclylC₀₋₆alkylene-Y-, and heterocyclylC₀₋₆alkylene-Y-; or two R¹ groups on adjacent carbons may form an oxyC₁₋₄alkoxy group or a C₃₋₅alkylene group; wherein R¹ may be optionally substituted on carbon with one or more R⁷ groups; and wherein if said heterocyclyl contains an -NH- moiety, that nitrogen may be optionally substituted by an R⁸ group;

n is 0-3; wherein the values of R¹ may be the same or different;

 R^2 and R^3 are independently selected from hydrogen, hydroxy, amino, cyano, C_{1-4} alkyl, C_{1-4} alkoxy, N-(C_{1-4} alkyl)amino, N-(C_{1-4} alkyl)₂amino, C_{1-4} alkylS(O)_a wherein a is 0 to 2, C_{1-4} alkoxycarbonyl, C_{1-4} alkoxycarbonylamino, C_{1-4} alkanoyloxy, carbocyclyl, heterocyclyl, carbocyclyl C_{1-4} alkyl, and heterocyclyl C_{1-4} alkyl; or

R² and R³ together form oxo or a spiro attached heterocyclyl; wherein R² and R³ may be independently optionally substituted on carbon with one or more R⁹ groups; and wherein if said

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heterocyclyl contains an -NH- moiety, that nitrogen may be optionally substituted with an R¹⁰ group;

Ring B is a heterocyclyl linked to the sulphonyl of the compound of formula (Ij) via a nitrogen atom; wherein if said heterocyclyl contains an -NH- moiety, that nitrogen may be optionally substituted with an R¹⁷ group;

R⁶ is a substituent on carbon and is selected from halo, nitro, cyano, hydroxy, amino, carboxy, carbamoyl, mercapto, sulphamoyl, trifluoromethyl, trifluoromethoxy, C₁₋₄alkyl, C₂₋₄alkenyl, C₂₋₄alkynyl, C₁₋₄alkoxy, C₁₋₄alkanoyl, C₁₋₄alkanoyloxy, N-(C₁₋₄alkyl)amino, N,N-(C₁₋₄alkyl)₂amino, C₁₋₄alkanoylamino, N-(C₁₋₄alkyl)carbamoyl, N,N-(C₁₋₄alkyl)₂carbamoyl, C₁₋₄alkylS(O)_a wherein a is 0 to 2, C₁₋₄alkoxycarbonyl, N-(C₁₋₄alkyl)sulphamoyl, N,N-(C₁₋₄alkyl)₂sulphamoyl, C₁₋₄alkylsulphonylamino, carbocyclyl, heterocyclyl, carbocyclylC₀₋₄alkylene-Y-, and heterocyclylC₀₋₄alkylene-Y-; wherein R⁶ may be optionally substituted on carbon with one or more R¹⁸ groups; and wherein if said heterocyclyl contains an -NH- moiety, that nitrogen may be optionally substituted with an R¹⁹ group;

m is 0-3; wherein the values of R^6 may be the same or different; Y is $-S(O)_a$ -, -O-, $-NR^{20}$ -, -C(O)-, $-C(O)NR^{21}$ -, $-NR^{22}C(O)$ -, or $-SO_2NR^{23}$ -; wherein a is 0 to 2;

R⁷, R⁹, and R¹⁸ are independently selected from halo, nitro, cyano, hydroxy, amino, carboxy, carbamoyl, mercapto, sulphamoyl, trifluoromethyl, trifluoromethoxy, C₁₋₄alkyl, C₂₋₄alkenyl, C₂₋₄alkynyl, C₁₋₄alkoxy, C₁₋₄alkanoyl, C₁₋₄alkanoyloxy, N-(C₁₋₄alkyl)amino, N,N-(C₁₋₄alkyl)₂amino, C₁₋₄alkanoylamino, N-(C₁₋₄alkyl)carbamoyl, N,N-(C₁₋₄alkyl)₂carbamoyl, C₁₋₄alkylS(O)_a wherein a is 0 to 2, C₁₋₄alkoxycarbonyl, N-(C₁₋₄alkyl)sulphamoyl, N,N-(C₁₋₄alkyl)₂sulphamoyl, C₁₋₄alkylsulphonylamino, carbocyclyl, and heterocyclyl; wherein R⁷, R⁹, and R¹⁸ may be independently optionally substituted on carbon with one or more R²⁶ groups;

 R^8 , R^{10} , R^{17} , and R^{19} are independently selected from C_{1-4} alkyl, C_{1-4} alkanoyl, C_{1-4} alkylsulphonyl, C_{1-4} alkoxycarbonyl, carbamoyl, N-(C_{1-4} alkyl)carbamoyl, N-(C_{1-4} alkyl)carbamoyl, benzyl, benzyloxycarbonyl, benzoyl, carbocyclyl, heterocyclyl, and phenylsulphonyl; wherein R^8 , R^{10} , R^{17} , and R^{19} may be independently optionally substituted on carbon with one or more R^{27} groups;

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 \mathbb{R}^{20} , \mathbb{R}^{21} , \mathbb{R}^{22} , and \mathbb{R}^{23} are independently selected from hydrogen, phenyl, $C_{1.4}$ alkylsulphonyl, and $C_{1.4}$ alkyl;

R²⁶ and R²⁷ are independently selected from selected from halo, nitro, cyano, hydroxy, trifluoromethoxy, trifluoromethyl, amino, carboxy, carbamoyl, mercapto, sulphamoyl, methyl, ethyl, methoxy, ethoxy, acetyl, acetoxy, methylamino, ethylamino, dimethylamino, diethylamino, N-methyl-N-ethylamino, acetylamino, N-methylcarbamoyl, N-ethylcarbamoyl, N-methyl-N-ethylcarbamoyl, methylthio, ethylthio, methylsulphinyl, ethylsulphinyl, mesyl, ethylsulphonyl, methoxycarbonyl, ethoxycarbonyl, N-methylsulphamoyl, N-ethylsulphamoyl, N-dimethylsulphamoyl, N,N-diethylsulphamoyl, and N-methyl-N-ethylsulphamoyl;

or a pharmaceutically acceptable salt thereof;

with the proviso that said compound is not (phenyl)-[α-(pyrrolidin-1-ylsulphonyl)benzyl]-ketone; (phenyl)-[α-(morpholinosulphonyl)benzyl]-ketone;

(4-carbamoylphenyl)-[4-(5-chloropyridin-2-yloxy)piperidin-1-ylsulphonylmethyl]-ketone;

(4-carbamoylphenyl)-[4-(4-fluorophenyl)piperidin-1-ylsulphonylmethyl]-ketone;

(4-fluorophenyl)-[4-(5-chloropyridin-2-yloxy)piperidin-1-ylsulphonylmethyl]-ketone;

(phenyl)-[4-(5-chloropyridin-2-yloxy)piperidin-1-ylsulphonylmethyl]-ketone:

(4-chlorophenyl)-(piperazin-1-ylsulphonylmethyl)-ketone;

(4-chlorophenyl)-[4-(t-butoxycarbonyl)piperazin-1-ylsulphonylmethyl]-ketone;

(4-hydroxyphenyl)-(morpholinosulphonylmethyl)-ketone; or

(phenyl)-(1,2,3,4-tetrahydroisoguinolin-2-ylsulphonylmethyl)-ketone:

when R^2 and R^3 are hydrogen, m is 0, and Ring B is 4-methylpiperazin-1-yl, then $(R^1)_n$ is not hydrogen, 4-fluoro, 4-nitro, 3,4-dimethoxy, 4-methoxy, 4-t-butyl, 4-trifluoromethyl, or 4-chloro; and

when R^2 and R^3 are hydrogen, m is 0, and Ring B is morpholino, then $(R^1)_n$ is not hydrogen, 4-dimethylamino, 4-nitro, 4-methoxy, 4-t-butyl, 4-trifluoromethyl, or 4-fluoro or 4-chloro.

12. (Cancelled)

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13. (Currently Amended) A pharmaceutical composition which comprises a compound of <u>claim</u>

11 any one of claims 9, 11 or 12, or a pharmaceutically acceptable salt thereof, in association with a pharmaceutically acceptable diluent or carrier.

.14-20. (Cancelled)

- 21. (New) The compound of claim 11, wherein the compound is (morpholinosulphonylmethyl)-(4-fluorophenyl)-ketone.
- 22. (New) A method for inhibiting 11βHSD1, comprising administering a compound of claim 11.
- 23. (New) The method of claim 22, wherein a therapeutically effective amount of the compound is administered to a warm-blooded animal.
- 23. (New) The method of claim 22, wherein the method is a method of treating a disease.
- 24. (New) The method of claim 23, wherein the disease is a metabolic syndrome.
- 25. (New) The method of claim 23, wherein the disease is selected from diabetes, obesity, hyperlipidaemia, hyperglycaemia, hyperinsulinemia, and hypertension.
- 26. (New) The method of claim 23, wherein the disease is selected from glaucoma, osteoporosis, tuberculosis, dementia, cognitive disorders or depression.
- 27. (New) A method for inhibiting 11βHSD1, comprising administering the composition of claim 13.

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- 28. (New) The method of claim 27, wherein a therapeutically effective amount of the composition is administered to a warm-blooded animal.
- 29. (New) The method of claim 27, wherein the method is a method of treating a disease.
- 30. (New) The method of claim 29, wherein the disease is a metabolic syndrome.
- 31. (New) The method of claim 29, wherein the disease is selected from diabetes, obesity, hyperlipidaemia, hyperglycaemia, hyperinsulinemia, and hypertension.
- 32. (New) The method of claim 29, wherein the disease is selected from glaucoma, osteoporosis, tuberculosis, dementia, cognitive disorders or depression.